

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai-400 022.

Consent order No: - BO/CAC-cell/ CR/CAC- 0292

Date- 21/03/2017

To,
M/s. Jawaharlal Nehru Port Trust,
Sheva, Tal. Uran, Dist. Raigad

Sub: Renewal of Consent to Operate in RED category

Ref :

1. Previous Consent to Operate issued by the Board vide BO/CAC-Cell/RO-NM/EIC-NM-5520-14/R/CAC-2348 dated 02.03.2015 valid upto 30.09.2015.
2. Your application approved in 15th CAC meeting of 2015-2016, dated 09.03.2016

Your application No. CR1509000004

Date: 01.08.2015

For: Renewal of Consent to Operate

under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The Renewal of consent to Operate is granted for a period upto 30.09.2020.
2. The Capital investment of the project is Rs. 5449.8 crs. (i.e. JNPT-3129.62 crs, NSICT – DP World- 985.88 crs and GTIPL – APM Terminals- 1334.3 crs; As per documents submitted by applicant).
3. The Consent to operate is valid for following activity:
Handling of containers, dry and liquid bulk cargos - 65.730465 Million Tonnes/ Annum at following terminals only.

Sr. no.	Terminal Name	No. of Berth	Length of Berth in metres	Container storage area
1.	JNPT Container Terminal	3	680	61.5 Ha
	Shallow Water Berth (SWB)	3	450	
2.	Nhava Sheva International Container Terminal (NSICT – DP World)	2	600	25.90 Ha
3.	Gateway Terminals India Pvt. Ltd. (GTIPL – APM Terminals)	2	712	54.60 Ha

All A,B, C Class of liquid cargos for receipt and distribution by JNPT (no storage) including below list upto 65.730465 Million Tonnes/ Annum

Sr.	Product Name	Sr.	Product Name
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No.		No.	
1	MTBE	36	Paraxylene/Mixed Xylene
2	Ortho Xylene	37	Butyl Acetate
3	Isopropyle Alcohol	38	Methanol
4	Carbon Tetrachloride	39	Acetic acid
5	Ethylene Di Amine	40	Iso Nonyl Alcohol
6	AHE-70	41	L.A.B.
7	Paraffin Oil	42	Lube Oil
8	Meta Methyl Acrylate	43	Iso Butanol
9	Cyclohexane	44	Base Oil
10	Diethylene Glycol	45	Allyl Alcohol
11	Biodiesel	46	2-Ethyl Hexanol
12	Ortho Toluidine	47	CBFS
13	Propylene Glycol	48	1,4 Butanediol
14	Ethylene Di Chloride	49	M.E.G/Crude Glycol
15	Palm fatty Oil/Acid	50	Ethanol
16	Luprant	51	Ammonia
17	Isobutyl Alcohol	52	Palm Oils
18	Tri ethylene Glycol	53	Caustic Soda
19	Meta Xylene	54	Ethylene
20	N Paraffin	55	Castor Oil
21	Poly Propylene	56	Acetone
22	All A, B, C, Class of Petroleum	57	Edible Oil
23	Methyl Isobutyl Ketone	58	1-Butanol
24	Styrene Monomer	59	Molasses
25	Phenol	60	Vegetable Oils
26	Glycerine	61	Chloroform
27	Aniline Oil	62	Aromatic Feed Stocks(AFS)
28	Aromex	63	Ethyl Acetate
29	Acrylonitrile	64	Acetic Anhydride
30	Phosphoric Acid	65	Lauryl Mirystl Alcohol
31	Benzene	66	Butadine
32	Toluene	67	n-Hexane
33	Propylene	68	Methyl ethyl Ketone
34	Sulphuric Acid	69	Butyl Acetate
35	2-Propylheptan-1	70	Vinyl Acetate

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	Nil	As per Schedule -I	
2.	Domestic effluent	2860	As per Schedule -I	The treated effluent shall be 60% recycled for secondary purposes such as toilet flushing, air conditioning, cooling tower make up, firefighting etc. and remaining shall be utilized on land for gardening and connected to the sewerage

				system provided by local body/ disposed into creek.
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5. Conditions under Air (P&CP) Act, 1981 for air emissions:

Sr. No.	Description of stack / source	Number of Stack	Standards to be achieved
1.	DG set (3 x 200 KVA), (1 x 380 KVA), (3 x 4500 KVA), (3 x 500 KVA), (2 x 1000 KVA), (2 x 1000 KVA), (3 x 1250 KVA), (3 x 1500 KVA)	18 Nos.	As per Schedule -II

6. Conditions under Municipal Solid Waste (Management and Handling) Rule, 2000

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1.	Bio-degradable	10 Ton/Day	Ton/day	Bio-composting/ OWC	Use as manure
2.	Non-biodegradable			--	Sale for recycle or Hand over to local body
3	STP Sludge	1000	Kg/Month	--	Use as manure

7. Conditions under E-Waste (Management and Handling) Rule, 2011 :

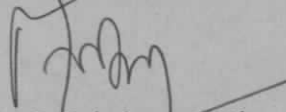
Sr. No.	Type Of Waste	Quantity	Treatment	Disposal
1	E-waste	As actual	Nil	Authorized recyclers

8. Conditions under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 for treatment and disposal of hazardous waste

Sr. No.	Type Of Waste	Category	Quantity	UOM	Disposal
1	Used or spent oil	5.1	1.5	MT/Month	Sale to authorized Recycler
2	Wastes or residues containing oil	5.2	0.252	MT/Day	Sale to authorized Recycler
3	Sludge and filters contaminated with oil	3.3	20.1	MT/Day	Sale to authorized Recycler

9. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
10. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.
11. The applicant shall comply with the conditions stipulated in letter received from MoEF, GOI vide no. J-17011/18/96-IA-III dated 22/7/2005 and Office memorandum regarding Environmental Clearance vide letter no. J-11013/21/88-IA dated 16th September, 1988.

For and on behalf of the
Maharashtra Pollution Control Board

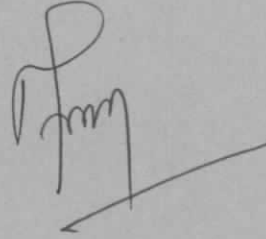

(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of –

Sr. No.	Bank Name	Transaction Type	Amount	Date
1	Bank of India	DD No. 115707	1,30,95,344/-	30.07.2015
2	Bank of India	DD No. 198155	1,11,84,304/-	30.07.2016
3	Bank of India	RTGS	3,26,98,732	31.01.2017

Copy to:

1. Regional Officer, MPCB, Navi Mumbai and Sub-Regional Officer, MPCB, Taloja: They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

A handwritten signature in black ink, consisting of a stylized 'P' followed by a series of loops and a long horizontal stroke extending to the right.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A) As per your consent application, you have provided the sewage treatment system for treatment of sewage effluent with the design capacity of 4 MLD.

B) The Applicant shall operate and maintain the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

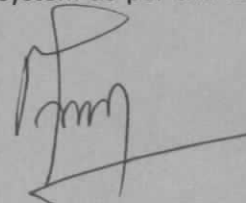
Sr No.	Parameters	Standards prescribed by Board
		Limiting Concentration in mg/l, except for pH
01	BOD (3 days 27°C)	10
02	Suspended Solids	10
03	COD	50
04	Residual Chlorine	1ppm
05	Detergent	2

C) The treated effluent shall be 60% recycled for secondary purposes such as toilet flushing, air conditioning, cooling tower make up, firefighting etc. and remaining shall be utilized on land for gardening and connected to the sewerage system provided by local body/ disposed into creek. Project proponent shall provide flow meter to ensure 60% recycling of treated sewage and shall maintain the record with data logging system.

- 2) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.
- 3) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 4) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	--
2.	Domestic purpose	11377.9
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	--
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	--

5) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time.



Schedule-II

Terms & conditions for compliance of Air & Noise Pollution Control:

1. As per your application, you have erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %
1.	DG set(3 x 200KVA)	Acoustic enclosure	2.8* each	HSD	@ 0.21 liters/hr/KVA at full load.	1
2.	DG set(1 x 380KVA)	Acoustic enclosure	3.9* each			
3.	DG set(3 x 4500KVA)	Acoustic enclosure	4.2* each			
4.	DG set(3 x 500KVA)	Acoustic enclosure	4.5* each			
5.	DG set(2 x 1000KVA)	Acoustic enclosure	6.3* each			
6.	DG set(3 x 1250KVA)	Acoustic enclosure	7.1* each			
7.	DG set(3 x 1500KVA)	Acoustic enclosure	7.7* each			

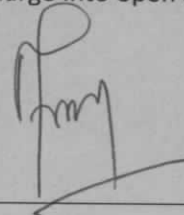
* above roof of the building in which it is installed

2. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm ³
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3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement alteration well before its life come to an end or erection of new pollution control equipment.
4. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
5. Ambient noise level should be confirmed to prescribe standards both during day and night time. The ambient air and noise quality should be closely monitored during any construction phase in the premises.
6. Conditions for utilities like Kitchen, Eating Places:-
- The kitchen shall be provided with exhaust system chimney with oil catcher connected to chimney through ducting.
 - The toilet shall be provided with exhaust system connected to chimney through ducting.
 - The air conditioner shall be vibration proof and the noise shall not exceed 68 dB(A).
 - The exhaust hot air from A.C. shall be attached to Chimney at least 5 mtrs. higher than the nearest tallest building through ducting and shall discharge into open air in such a way that no nuisance is caused to neighbors.

Schedule-III



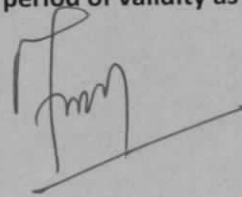
Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period**	Purpose of BG #	Compliance Period	Validity Date++
1	C to R	Rs. 5 lakh	15 days from date of issue of consent	PP shall extend the BG of Rs. 5 lakhs towards O&M of pollution control system.	Continuous	Validity of Consent + 4 months

** The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days of the date of issue of Consent.

++ The Bank Guarantee(s) shall be valid for a period upto: Validity of consent + 4 months

Existing BG obtained for above purpose if any may be extended for period of validity as above.



Schedule-IV

General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 6) The firm shall submit to this office, the 30th day of September every year , the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled/processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 8) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazarsous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 11) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 12) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 13) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 16) Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.

- b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
- c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
- d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use
- f) D.G. Set shall be operated only in case of power failure.
- g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 17) The industry should not cause any nuisance in surrounding area.
- 18) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 19) The applicant shall maintain good housekeeping.
- 20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 21) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 22) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 23) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 24) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 25) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 26) The applicant should ensure that no unauthorized activity should take place within the port trust area and ensure that all necessary precautions and necessary arrangements are made for Environmental Protection.
- 27) The consent is granted with the condition that the entire individual units, if any operating in the premises should apply separately for grant of consent from MPC Board. The Port Authority will be considered equally responsible in case of non-compliance of Environmental Norms. The port is also enjoined to take action against defaulters under IPA,1908.

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